Index 700-040 Cantilever Sign Structure

Design Criteria

AASHTO LRFD Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals (LRFDLTS); Structures Manual (SM), Volume 3, FDOT Modifications to LRFDLTS; Structures Manual (SM) Introduction, I.6 References; Structures Design Guidelines (SDG); FDOT Design Manual (FDM)

Design Assumptions and Limitations

The maximum span length of Cantilever Sign Structures is 50 feet. See the notes on *Index 700-040*, *FDM 230*, *FDM 261*, *Structures Manual (SM)*, Volume 3 and the *SDG* for additional information.

Use *Index 700-040* in conjunction with *Index 700-030* and the *Cantilever Overhead Sign* Mathcad 15 computer program located on the **Structures Design Programs Library** website.

Plan Content Requirements

See the **FDM 940**.

Complete the appropriate "Cantilever Sign Structures Data Table". There is a choice of two tables, one for a sign structure with a spread footing foundation and the other for a sign structure with a drilled shaft foundation. Much of the data for inclusion in the table may be found in the **Cantilever Overhead Sign** output. Include Design Wind Speed and soils information.

Cantilever Sign Structures Data Table (Spread Footing Foundation):

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NOTES [Notes Date 7-01-13]:

- 1. Work these Data Tables with Index 700-040.
- Design Wind Speed = __ mph.
 Upright wall thickness given is a
- minimum dimension.

- FOUNDATION NOTES [Notes Date 7-01-12]:

 1. Design based on Borings taken sealed by ____.

 2. Assumptions and Values used in design: Soil Type ____ Soil Layer Thickness = ____ ft. Soil Friction Angle = ___ deg. Soil Weight = ___ pcf Design Water Table is ____ ft. below surface surface

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CANTILEVER SIGN STRUCTURES DATA TABLE (CONT.)															Table Date 01-01-11													
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Cantilever Sign Structures Data Table (Drilled Shaft Foundation):

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Payment

Item number	Item Description	Unit Measure
700-4-11C	Overhead Static Sign Structure (F&I, Cantilever)	EA

See Standard Plans Instruction for Index 700-030 for sign panel.

See the **BOE** and **Specification 700** for additional information on payment, pay item use and compensation.